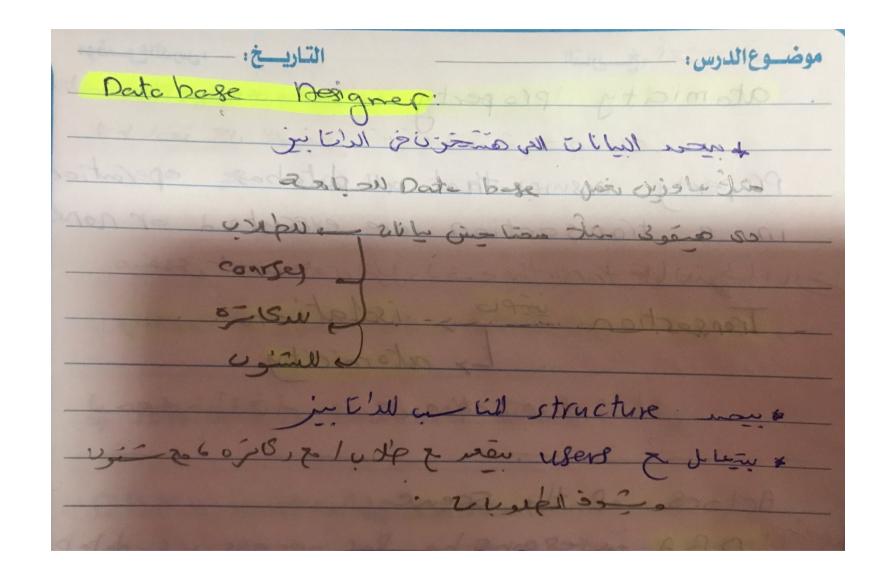


atomicity property cools essively transaction لام انفت كل الله فن لاما سَفَاسَ داده كالله property ensures that all patabase operations in a transaction are executed or none istill just transiction = is a sport ords us + crains Transaction isolation Ly atomicity le transaction 18 2- visibis des de Actors of the scene responsible for access to detabase and the die the tries of the concista was the way to DAA 32 Spanning CIDBA DRA Remod & Sw , hardware resources as needed View legel grant antivirse grant surporgran 6 Wherd disk zies - accountable for problems si معاسب على اى ميان تخي المتانز security breeches poor system respose syter Anolysis -



DBA: disk 1 server of ig = i = old is a red hard disk is al star siste Data Model: collection of concepts that the can be used to describe the structure of a date base structure of database we mean the data type relations, constrains jess entites in viede jens while in viole - Data Model in clude set of bosic operation For specifing retrievals (quierres) and up dates (insert / deletel update)

Scanned with CamScanner

التاريخ: موضوع الدرس: Date model , concepts , database structure (tools) -> basic operations de la pata model coupie cartegories concepts that usequents to forcibe obstruction (1) High level Data Model (conceptual date model is declar sies is high level programmy language users lassi open will come concepts that are close to the may user (2) low level (physical data model) concepts that describe details how data is stored on computer storage medic for computer specialist not for end users (3) representational (implementation determodel) \* earsly understood by end wers serix way dute is organized in computer storces is the details chimme on while afin dept dept + hide details of debe storage

